

INTENDED USE

25' [7.62m] Long-Span, W-Beam with 100' [30.48m] Nested Rail should be used in locations where the unsupported length of guardrail does not exceed 25' [76.2m]. Shorter unsupported lengths of nested (double ply) guardrail sections are permitted, although 6 CRT (PDE09) timber posts are required, with 3 posts placed adjacent to each end of the unsupported length of guardrail. 25' [76.2m] Long-Span, W-Beam with 100' [30.48m] Nested Rail should be anchored and secured with the appropriate end treatment that is approved with a 27 3/4" [706] top mounting height. 25' [76.2m] Long-Span, W-Beam with 100' [30.48m] Nested Rail can be used with wide-flange steel posts (PWE01) or timber posts (PDE02) in the length of guardrail not immediately preceding the unsupported length of rail.

COMPONENTS

Unit Length = 100' (30.48m)

| DESIGNATOR | COMPONENT | SYSTEM | NUMBER |
|------------|---------------------------------|--------|--------|
| FBB01 | Guardrail splice bolts and nuts | a-b | 64 |
| FBB03 | Guardrail post bolts and nuts | a | 7 |
| FBB04 | Guardrail post bolts and nuts | b | 7 |
| FBB05 | Guardrail post bolts and nuts | a-b | 6 |
| FWC16a | Round washer | a-b | 13 |
| PDB01 | W-beam timber blackout | a-b | 12 |
| PDB01 | W-beam timber blackout | b | 7 |
| PDB09 | Timber blackout | a | 7 |
| PDE02 | Timber post | b | 7 |
| PDE09 | Timber CRT post | a-b | 6 |
| PWE01 | Wide-flange guardrail post | a | 7 |
| RWM02a | W-beam rail | a-b | 16 |
| ----- | 16D double head nail | a-b | 19 |

*Note: RWM04a rail may be used in place of the RWM02a rail.

ACCEPTANCE

FHWA Acceptance Letter B58, October 8, 1999.

25' [7.62 m] LONG-SPAN, W-BEAM WITH 100' [30.48 m] NESTED RAIL

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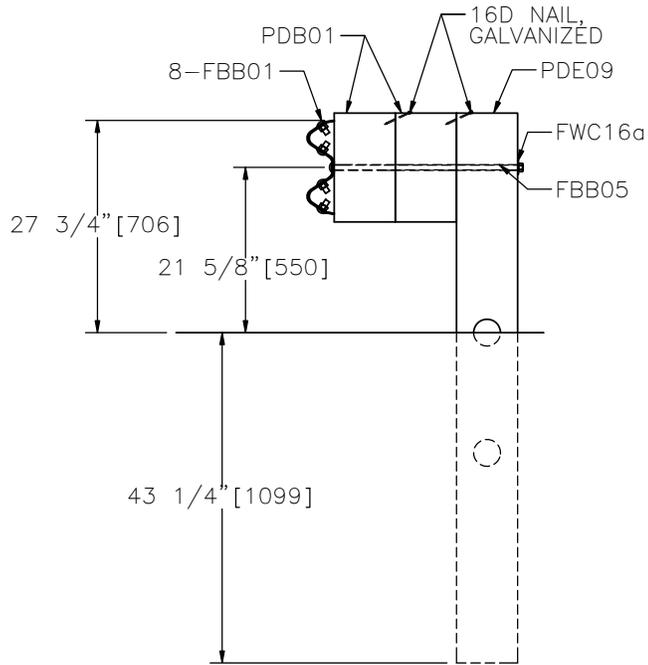


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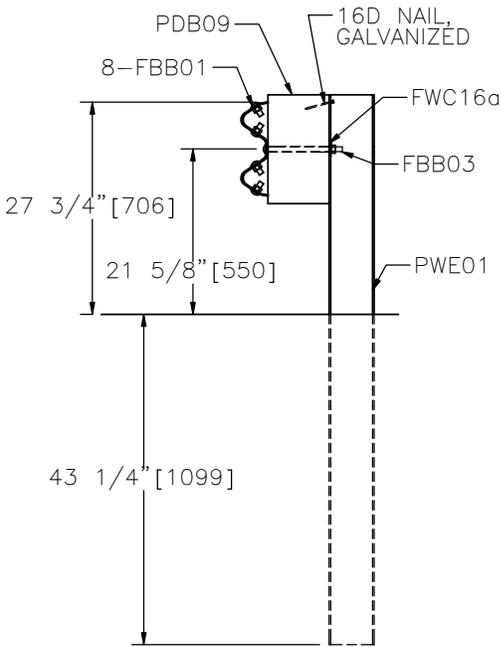
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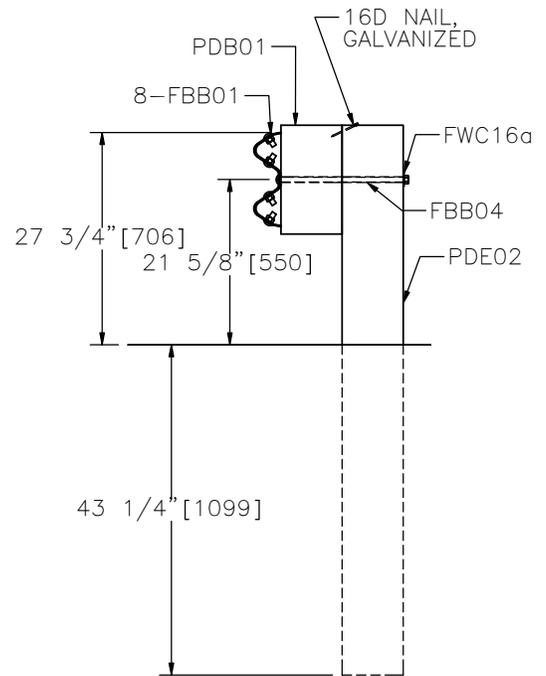
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SECTION A-A



SECTION B-B
STEEL POST OPTION



SECTION B-B
WOOD POST OPTION

25' [7.62 m] LONG-SPAN, W-BEAM WITH 100' [30.48 m] NESTED RAIL



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REFERENCES

Polivka, K.A., Bielenberg, B.W., Sicking, D.L., Faller, R.K., Rohde, J.R., *Development of a 7.62-m Long Span Guardrail System*, Final Report to the Midwest States' Regional Pooled Fund Program, Midwest Roadside Safety Facility, Transportation Research Report No. TRP-03-72-99, Project SPR-03(017), Midwest Roadside Safety Facility, April 6, 1999.

Faller, R.K., Sicking, D.L., Polivka, K.A., Rohde, J.R., and Bielenberg, R.W., *A Long-Span Guardrail System for Culvert Applications*, Paper No. 00-0598, Transportation Research Record No. 1720, Journal of the Transportation Research Board, Transportation Research Board, Washington, D.C., January 2000.

CONTACT INFORMATION

Midwest Roadside Safety Facility
E527 Nebraska Hall
Lincoln, NE 68588-0529
(402) 472-0965
Email: mwrsf@unl.edu
Website: <http://mwrsf.unl.edu/>



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